

WHAT IS CLAIMED IS:

1. A linear light-source module comprising:

a light-guide rod having a plurality of recesses concave thereof and each, in view of a cross section thereof, formed on a joint of a deviation line, which downwardly deflects a first predetermined angle from a centric-horizontal line in a radiation direction of the light-guide rod, crossing with a side surface of the light-guide rod, wherein the recesses are arranged linearly in an axial direction of the light-guide rod, and the recesses each is concaved with a predetermined depth for controlling the reflection efficiency of the light-guide rod and equilateral to has a second predetermined angle sandwiched therein;

at least one lighting member disposed on at least one end of the light-guide rod; and

a reflection member enclosing the light-guide rod having an elongated opening formed on the side surface thereof and formed upwardly deflecting a supplementary angle, to the first predetermined angle, from the centric-horizontal line in the radiation direction of the light-guide rod, crossing with the side surface of the light-guide rod; wherein

the recesses are made integrally in one piece with the light-guide rod by an injection molding process, and the recesses arranged in a “compressive front and rarefactional rear” manner relative to the lighting member.

2. The linear light-source module of claim 1, wherein the lighting member is disposed on a first end of the light-guide rod, the light-guide rod has a recess density increasing from the first end to a second end opposing to the first end.

3. The linear light-source module of claim 1, wherein the lighting member is double to dispose on two opposing ends of the light-guide rod, the light-guide rod has a recess density increasing from each end to a middle thereof.

4. The linear light-source module of claim 1, wherein the light-guide rod is a crystalline material having a light transmission of more than about 90%.
5. The linear light-source module of claim 4, wherein the light-guide rod is made of Polycarbonate (PC), or Polyacrylate materials
- 5 6. The linear light-source module of claim 1, wherein the reflecting member is made of Polycarbonate (PC) material.
7. The linear light-source module of claim 1, wherein the first predetermined angle deflected in the light-guide rod is about 45 degree.
8. The linear light-source module of claim 1, wherein the second
10 predetermined angle sandwiched in each of the recess is about 90 degree.
9. The linear light-source module of claim 1, further includes a ratio of the thickness of the light-guide rod to the predetermined depth of each recesses is between about 30:1 to 20:1.